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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/672,879	09/29/2000	Minoru Handa	0757-0225P-SP	9477	
7590 04/02/2004			EXAM	EXAMINER	
Birch Stewart Kolasch & Birch LLP			LOBO, IAN J		
P O Box 747					
Falls Church, VA 22040-0747			ART UNIT	PAPER NUMBER	
			3662		
			DATE MAIL ED: 04/02/200	DATE MAILED: 04/02/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		09/672,879	HANDA ET AL.				
		Examiner	Art Unit				
		lan J. Lobo	3662				
	The MAILING DATE of this communication app						
Period fo	• •						
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status							
1) 又	Responsive to communication(s) filed on 05 Ja	nuarv 2004.					
		action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠	4)⊠ Claim(s) <u>1-4 and 6-34</u> is/are pending in the application.						
	4a) Of the above claim(s) <u>12-18 and 21-25</u> is/are withdrawn from consideration.						
5)⊠	5)⊠ Claim(s) <u>1-4,6-11,19 and 26-33</u> is/are allowed.						
6)⊠	Claim(s) <u>20 and 34</u> is/are rejected.						
	Claim(s) is/are objected to.						
8)[]	Claim(s) are subject to restriction and/or	election requirement.					
Applicati	on Papers						
9) The specification is objected to by the Examiner.							
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign p ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents		·(d) or (f).				
2.☐ Certified copies of the priority documents have been received in Application No.							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau		s in the Hallonal Olago				
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	((s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Dotice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	6) Other:	itent Application (PTO-152)				

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DETAILED ACTION

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Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 5, 2004 has been entered.

Allowable Subject Matter

2. Claims 1-4, 6-11, 19 and 26-33 are allowed.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 20 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over the patent to Jarman et al ('184).
- Col. 4, lines 3-12 and Figures 1 and 3a of the Jarman et al patent disclose a receiving beam forming apparatus that repeatedly samples echo signals. Specifically, it

is stated that the "fixed beam... can therefore be formed by sampling at the scan frequency, the detected received sonar signals, during a sampling period which is synchronized with the scanning frequency". Further, on col. 2, lines 11-27, it is stated that "successive scans relate to progressively increasing ranges ...".

The obviousness rejection is based upon a reading, by one of ordinary skill in the art, of specific structure from the Jarman et al patent upon the limitations in claims 20 and 34. Specifically, the above noted "successive scans" would functionally relate to the claimed limitation of "multiple scanning cycles", and the "sampling period being synchronized with the scanning frequency" would functionally relate to the claimed "scanning cycle being dependent upon the scanning frequency".

Response to Arguments

- 5. Applicant's arguments filed January 5, 2004 have been fully considered but they are not persuasive. Specifically, as shown above, the broad language of claims 20 and 34 may be found from functionally similar language in the Jarman et al patent.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ian J. Lobo whose telephone number is (703) 306-4161. The examiner can normally be reached on Monday Friday, 6:30 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas H. Tarcza can be reached on (703) 306-4171. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

lan J. Lobo

Primary Examiner Art Unit 3662

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